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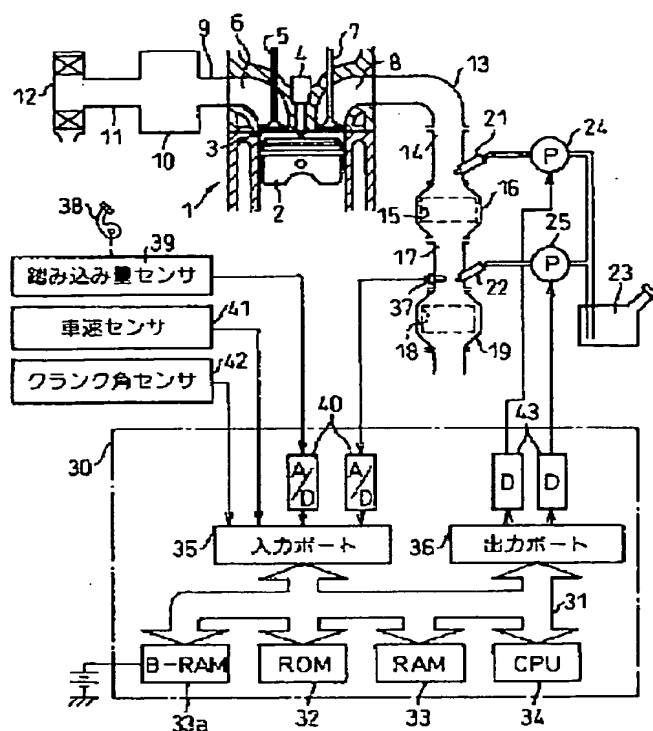
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APPLICANT : TOYOTA MOTOR CORP;

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TITLE : CATALYST POISONING
REGENERATOR FOR INTERNAL
COMBUSTION ENGINE



ABSTRACT : PROBLEM TO BE SOLVED: To release the extent of sulfur content absorbed by a NO_x absorber to the full as securing the good NO_x absorbing capacity of this NO_x absorber.

SOLUTION: A NO_x absorber 18, which absorbs nitrogen oxides when an air-fuel ratio of incoming exhaust is at the lean side, and releases the absorbed nitrogen oxides when oxygen concentration in this incoming exhaust decreases, is set up in an engine exhaust passage, and an oxidation catalyst 15 is set up in an exhaust passage upstream the NO_x absorber 18. A first reducer injection valve 21 is set up in the exhaust passage at the upstream side of the oxidation catalyst 15, and a second reducer injection valve 22 is set up in another exhaust passage between the oxidation catalyst 15 and the NO_x absorber 18. At a time when the nitrogen oxide being absorbed should be released from the NO_x absorber 18, any reducer feeding action of the second reducer injection valve 22 is prohibited while another reducer feeding action of the first reducer injection valve 21 is carried out instead, and when sulfur content being absorbed should be released from the NO_x absorber 18, the reducer feeding action of the first reducer injection valve 21 is carried out.

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